

## II. REMARKS

1. Claims 1-15 remain in the application.

2. Applicants wish to express their appreciation for the courtesies extended by the Examiner during the telephone conversation of 23 and 28 April 2004.

3. Applicants respectfully submit that claims 1-15 are patentable over Korpela et al. (US 6,510,146, "Korpela").

Korpela fails to disclose or suggest the following features of claims 1 and 13:

a subscriber terminal, or a means for, measuring received powers of neighbour cells in accordance with system information received from a current cell;

calculating, or a means for calculating, the time used for receiving the system information of the new cell by employing the length information in the system information part sent by the new cell; and

utilizing, or a means for utilizing, the calculated time in the cell re-selection.

Korpela also fails to disclose or suggest means for placing information indicating the system information length into a part of the system information, and means for utilizing the system information length for a time calculation to be used in cell re-selection, as recited by claim 14.

3.1 The present office action states: "Korpela discloses a subscriber terminal measuring received power of neighbor cells

in accordance with system information received from a current cell (column 8, lines 16-21)."

Applicants respectfully disagree and submit that column 8, lines 16-21 discloses that the mobile station measures the power of the present base station. There is no disclosure related to measuring received power of neighbor cells.

3.2 The present office action states: "Korpela discloses receiving the system information of the new cell by employing the length information in the system information part sent by the new cell (column 4, line 65-column 5 line 10)."

Applicants fails to find any reference to employing the length information in this section of Korpela. This section only describes that system information exists. There is nothing about receiving a part of the system information sent by the cell, and nothing about employing length information to calculate the time for receiving information sent by the new cell.

Korpela uses the system information for sending information to the MS concerning neighbour cells. The present application uses part of the system information message for indicating the amount of system information messages (the length) that the base station is transmitting in the cell. The length in the present application does not refer to the length of the system information message, but to the amount of messages to be received.

3.3 The present office action states: "Korpela discloses calculating the received signal from neighboring cell system information length and capacity (column 7, lines 52-59)."

This section discloses that the mobile station may calculate where in the message certain information is situated, using the contents of the fields 33. There is nothing related to employing length information to calculate the time for receiving information sent by the new cell.

Korpela refers to the information placed inside a single message, while the present application concerns finding a particular full system information message inside the scheduling scheme of all transmitted system information messages on a particular cell. The use of the word 'length' is not comparable to the present invention.

3.4 The present office action states: "Korpela discloses transfer to new cell based on the mobile based on time measurement to reselect the cell and utilizing the time in the cell reselection (column 9, lines 17-45)."

First, the claims call for cell re-selection by using the time it takes to receive the system information. The claims do not recite transferring to a new cell based on the time to reselct the cell.

Second, column 9, lines 17-45 discloses that the system information message may be shortened, that is, the message may only contain system information about cells that have a certain quality of service. If a suitable cell can't be found, a more extensive list of cells is sent. There is nothing related to calculating the time for receiving information sent by the new cell by employing length information.

Korpela states that the base station may send out a shortened version of a system information message (meaning not holding as much information as the original message) in order to optimize

the transmission. The system information in Korpela is transmitted to a particular MS during an active transfer on the dedicated control channel. The present application has nothing related to this approach. In the present application the MS uses the length indicators in the system information (which gives information from a base station to a MS about the number of different system information messages that are sent on the particular cell) to calculate the time it will take to receive this information.

In Korpela, the shortened message type has nothing to do with the actual cell reselection or change, but instead is used to optimize the air interface usage and load.

In Korpela, the 'length' field is used inside the message to indicate the border between different type of information blocks in the particular system information message. This is a well-known way to address different information blocks inside a message.

In the present application the 'length' term is used to represent the amount of system information messages transmitted in a cell. The length (amount) is used together with the scheduling or mapping scheme of the system information messages, to calculate the time it will take to receive all the messages.

### 3.5 The present office action states:

"Korpela does not explicitly teach calculating the time used for receiving system information. Korpela discloses a system information message that includes network control information with verity of lengthy of neighboring cells (table 2 column 7, lines 5-23) and also neighboring cells transmit system information

from quiet a distance are lower quality (column 8, lines 37-59 and figure 4). This indicates that cell information transmits from distance takes longer time to process, this technique utilizes for reselecting process."

Table 2, column 7, lines 5-23, simply demonstrates that the length of field 33 in the system information message may vary. That is, the length of the system information may vary based on how the cells and their classes are represented. This has nothing to do with using the length information to calculate the time to receive the information.

Column 8, lines 37-59 states that the mobile station receives information sent by the present base station (lines 31-33) which includes the quality of service of neighboring cells. There is nothing related to the distance of the cells, and nothing about using the length of the cell information to calculate the time to receive the system information.

Applicants fail to understand how table 2 in column 7, lines 5-23, and Figure 4 and column 8, lines 37-59 relate to the present claims.

At least for these reasons, Applicants respectfully submit that independent claims 1, 13, and 14 are patentable over Korpela. Claims 2-12 depend from claim 1, and claim 15 depends from claim 14. Therefore, claims 2-12 and 15 are also patentable over Korpela.


For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable

reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

A check in the amount of \$110.00 is enclosed for a one (1) month extension of time and on account of the additional claim fees.

The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,

  
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23 June 2004  
Date

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